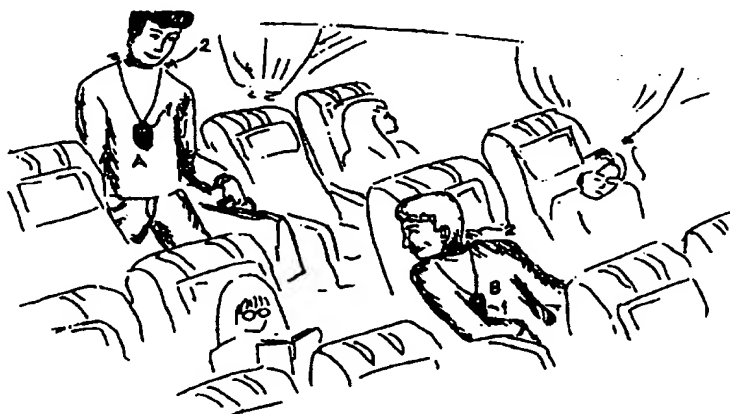




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : G01S 13/74	A1	(11) International Publication Number: WO 97/24627 (43) International Publication Date: 10 July 1997 (10.07.97)
<p>(21) International Application Number: PCT/FI97/00001</p> <p>(22) International Filing Date: 2 January 1997 (02.01.97)</p> <p>(30) Priority Data: 960002 2 January 1996 (02.01.96) FI</p> <p>(71) Applicant (for all designated States except US): CRE-ATTIVESCO OY [FI/FI]; Lyttsinpolku 5, FIN-67400 Kokkola (FI).</p> <p>(72) Inventor; and</p> <p>(75) Inventor/Applicant (for US only): ALASAARELA, Esko [FI/FI]; Lyttsinpolku 5, FIN-67400 Kokkola (FI).</p> <p>(74) Agent: BERGGREN OY AB; P.O. Box 16, FIN-00101 Helsinki (FI).</p>	<p>(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).</p> <p>Published <i>With international search report. In English translation (filed in Finnish).</i></p>	

(54) Title: **PERSON IDENTIFIER**

(57) Abstract

The object of the present invention is a portable device with which people, who have joined the same community, may identify each other as "Kinsmen". Devices of the invention carried by persons in a certain community transmit, when in search mode (e.g. modulated to a radio wave), the code adopted by the community to close range (e.g. 50m) at intervals (e.g. a couple of times a minute). At intervening times, the devices selectively "listen" whether some device happening to be in the neighbourhood is transmitting the same code. If the device receives and identifies the same code signal, it automatically transmits its code back after a short delay (e.g. half a second), and when the persons happen to come within close range, both their devices start transmitting the code in turns after the said delay, giving their bearers a signal. There is only need for one type of devices which operate both as senders and "listeners" of the code and as signalling devices. After the code is synchronized, any device may cooperate with any other device. The operation principle of the device is so simple, and it can be assembled from so few components, that it is possible to install it to a pendant, badge, wrist watch, or to some other inconspicuous place. The power consumption is so low that the device can operate several months with one charge or a small battery.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 97/00001

A. CLASSIFICATION OF SUBJECT MATTER

IPC6: G01S 13/74

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC6: G01S

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4173016 A (DICKSON), 30 October 1979 (30.10.79), see the whole document.	1-4,6,8-10
Y	--	5,7
Y	FR 2615957 A1 (DUPUCH), 5 March 1987 (05.03.87), page 2, line 1 - line 15, abstract	5,7
A	US 5086394 A (SHMUELSHAPIRA), 4 February 1992 (04.02.92), figure 1, abstract	1-10
A	WO 8501583 A1 (FINDIT A/S), 11 April 1985 (11.04.85), abstract	1-10

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "B" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

16 April 1997

17.04.1997

Name and mailing address of the ISA/
Swedish Patent Office
Box 5055, S-102 42 STOCKHOLM
Facsimile No. +46 8 666 02 86

Authorized officer

Göran Magnusson
Telephone No. +46 8 782 25 00